

Virginia Division of Consolidated Laboratory Services

ALKALINITY (COLORIMETRIC, AUTOMATED, METHYL ORGANGE) EPA 310.2 1974					
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Were samples refrigerated at 4°C?	3.1				
Were sample bottles not opened prior to analysis?	3.1				
Were samples analyzed by this method never filtered?	3.1				
Was methyl orange indicator made by dissolving methyl orange in distilled water at a rate of 0.125 g/L?	6.1				
Was pH 3.1 buffer made by dissolving 5.1047 g potassium acid phthalate and 87.6 mL 0.1N HCl in 1 Liter of distilled water?	6.2				
Was pH 3.1 buffer used for not longer than 1 week?	6.2				
Was methyl orange-buffered indicator made by mixing 1 Liter of pH 3.1 buffer and 200 mL methyl orange solution?	6.3				
Was methyl orange-buffered indicator used for not longer than 24 hours?	6.3				
Was anhydrous sodium carbonate oven-dried at 250°C for 4 hours prior to being used to make standards?	6.4				
Were all reagents run through instrument long enough to obtain stable baselines prior to analysis?	7.2				
Were working standards analyzed in order of decreasing concentration?	7.4				
Were standard curves prepared by plotting the peak heights of standards against their known concentrations?	8.1				
Notes/Comments:					